

ABSTRACT

A turboprop powerplant with at least a compressor having a forward compressor inlet and a shaft extending axially through the compressor and having a shaft axis, an inlet duct encircling the shaft passing therethrough, the inlet duct having an aft end in gas communication with the compressor inlet and a forward end having at least two branches each with an inlet orifice, each inlet orifice having a centroid in a radial plane through and transverse to the shaft axis, the centroids and shaft axis defining an angle less than 180° .